

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Declaration and Power of Attorney for Patent Application
特許出願宣言書および委任状

Japanese Language Declaration

日本語宣言書

私は下記発明者として以下の通り宣言します：

私の住所、郵送先、および国籍は私の氏名の後に記載された通りです。

下記名称の発明に関し請求範囲に記載され特許出願がされている発明内容につき、私が最初、最先かつ唯一の発明者（下記氏名が一つの場合）であるか、あるいは最初、最先かつ共同発明者（下記氏名が複数の場合）であると信じます。

下記項目に×印が付いている場合を除き、上記発明の明細書は本冊に添付されます。

☐ 上記発明は米国出願番号あるいは PCT 国際出願番号（確認番号 _____）として _____ 年 _____ 月 _____ 日に出願され、
_____ 年 _____ 月 _____ 日に補正されました（該当する場合）。

私は特許請求範囲を含み上述の補正で補正された前記明細書の内容を検討し、理解していることをここに表明します。

私は連邦規則法典第 37 編 1 条 56 項に定義される特許性に肝要な情報について開示義務があることを認めます。

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

HIGHLY DURABLE SILICA GLASS, PROCESS AND
APPARATUS FOR PRODUCING SAME, AND HIGHLY
DURABLE SILICA GLASS MEMBER AND APPARATUS
PROVIDED WITH SAME

the specification of which is attached hereto unless the following box is checked:

☐ was filed on _____
as United States Application Number or
PCT International Application Number
_____ (Conf. No. _____)
and was amended on _____
_____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

Japanese Language Declaration

日本語宣言書

私は米国法典第 35 条 119 条(a)-(d)あるいは 365 条(b)に基づき特許あるいは発明者証書の下記外国出願、または 365 条(a)に基づき米国以外の少なくとも 1 ヶ国を指定した下記 PCT 外国出願についての外国優先権をここに主張するとともに、下記項目にx印を付けることにより優先権を主張する出願以前の出願日を有する特許あるいは発明者証書の外国出願あるいは PCT 外国出願を示します。

Prior foreign application(s)
外国での先行出願

2001-87082 (Number) (番号)	Japan (Country) (国名)
2001-166307 (Number) (番号)	Japan (Country) (国名)

私は米国法典第 35 条 119 条(e)に基づき下記の米国仮特許の利益をここに主張します。

(Application No.) (出願番号)
(Application No.) (出願番号)

私は米国法典第 35 条 120 条に基づき下記米国特許出願、あるいは 365 条(c)に基づき米国を指定する下記 PCT 国際特許出願の利益をここに主張し、本特許出願内特許請求範囲の各項目の内容が米国法典第 35 条 112 条の最初の項に規定される方法により先行米国あるいは PCT 国際特許出願で開示されていない限りにおいて連邦規則法典第 37 条 1 条 56 項に定義される特許性に肝要で、先行特許出願の出願日から本特許出願の国内あるいは PCT の出願日までの間に入手された情報について開示義務があることを認めます。

(Application No.) (出願番号)	(Filing Date) (出願日)
(Application No.) (出願番号)	(Filing Date) (出願日)

私は本宣言書内で私自身の知識に基づいてなされたすべての陳述が真実であり、情報および信ずるところに基づいてなされたすべての陳述が真実であると信じられていることをここに宣言し、さらに故意になされた虚偽の陳述等々は米国法典第 18 条 1001 条に基づき罰金あるいは拘禁または両方による処罰にあたり、またかような故意による虚偽の陳述はそれに基づく特許出願あるいは成立特許の有効性を危うくする可能性があることを認識した上でこれらの陳述をなしたことを宣言します。

I hereby claim foreign priority under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below, and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Claimed
優先権の主張

26/03/2001 (Day/Month/Year Filed) (出願年月日)	Yes 有り <input checked="" type="checkbox"/>	No 無し <input type="checkbox"/>
01/06/2001 (Day/Month/Year Filed) (出願年月日)	Yes 有り <input checked="" type="checkbox"/>	No 無し <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

(Filing Date) (出願日)
(Filing Date) (出願日)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Status: patented, pending, abandoned) (状態: 特許成立済、係属中、放棄済)
(Status: patented, pending, abandoned) (状態: 特許成立済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Japanese Language Declaration

日本語宣言書

委任状：私は下記の米国特許商標局（USPTO）顧客番号のもとに記載される SUGHRUE MION 法律事務所のすべての弁理士を、同顧客番号のもとに記載される個々の弁理士は SUGHRUE MION 法律事務所のみ自由裁量に基づき変更され得ることを認識した上で、本特許出願の手続きおよびそれに関わる特許商標局との業務を遂行する弁理士として指名し、本特許出願に関するすべての通信が同 USPTO 顧客番号のもとに提出された住所宛に送付されることを要請します。

POWER OF ATTORNEY: I hereby appoint all attorneys of SUGHRUE MION, PLLC who are listed under the USPTO Customer Number shown below as my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of SUGHRUE MION, PLLC, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number.



23373

PATENT TRADEMARK OFFICE

電話連絡は下記へ：（名前および電話番号）

SUGHRUE MION, PLLC
(202) 293-7060

Direct Telephone Calls to: (name and telephone number)

SUGHRUE MION, PLLC
(202) 293-7060

Full name of sole or first inventor 唯一あるいは第一の発明者名	Yoshinori HARADA	
Inventor's signature 発明者の署名	<i>Yoshinori Harada</i>	Date 日付 March 11, 2002
Residence 住所	Sagamihara-shi, Kanagawa, Japan	
Citizenship 国籍	Japanese	
Mailing Address 〒送先	301, 7-37-17, Sagamiono, Sagamihara-shi, Kanagawa, 228-0803 Japan	
Full name of second joint inventor, if any 第二の共同発明者名（仮定する場合）	Shuzo MIZUTANI	
Second inventor's signature 第二発明者の署名	<i>Shuzo Mizutani</i>	Date 日付 March 11, 2002
Residence 住所	Fujisawa-shi, Kanagawa, Japan	
Citizenship 国籍	Japanese	
Mailing Address 〒送先	519, Shimotsuchidana, Fujisawa-shi, Kanagawa, 252-0807 Japan	

Full name of third joint inventor, if any 第三の共同発明者名 (該当する場合)		Shinkichi HASHIMOTO	
Third inventor's signature 第三発明者の署名		Date 日付	March 11, 2002
Residence 住所		Sagamihara-shi, Kanagawa, Japan	
Citizenship 国籍		Japanese	
Mailing Address 送先		3-3-16, Minamihashimoto, Sagamihara-shi, Kanagawa, 229-1133 Japan	
Full name of fourth joint inventor, if any 第四の共同発明者名 (該当する場合)		Masakazu KUDOH	
Fourth inventor's signature 第四発明者の署名		Date 日付	March 11, 2002
Residence 住所		Yamagata-shi, Yamagata, Japan	
Citizenship 国籍		Japanese	
Mailing Address 送先		2-8-32-7, Shironishi-machi, Yamagata-shi, Yamagata, 990-0832 Japan	
Full name of fifth joint inventor, if any 第五の共同発明者名 (該当する場合)		Naoki MIURA	
Fifth inventor's signature 第五発明者の署名		Date 日付	March 11, 2002
Residence 住所		Yamagata-shi, Yamagata, Japan	
Citizenship 国籍		Japanese	
Mailing Address 送先		202, 3-3-34, Higashihara-cho, Yamagata-shi, Yamagata, 990-0034 Japan	
Full name of sixth joint inventor, if any 第六の共同発明者名 (該当する場合)		Katsufumi TAKAHASHI	
Sixth inventor's signature 第六発明者の署名		Date 日付	March 11, 2002
Residence 住所		Sakata-shi, Yamagata, Japan	
Citizenship 国籍		Japanese	
Mailing Address 送先		5-8-8, Shinbashi, Sakata-shi, Yamagata, 998-0864 Japan	

Full name of seventh joint inventor, if any 第七の共同発明者名 (該当する場合)		Hideki KIYOHARA
Third inventor's signature 第三発明者の署名	Hideki Kiyohara	Date 日付 March 11, 2002
Residence 住所	Tokuyama-shi, Yamaguchi, Japan	
Citizenship 国籍	Japanese	
Mailing Address 郵送先	1-8, Ouchi-cho, Tokuyama-shi, Yamaguchi, 745-0824 Japan	
Full name of eighth joint inventor, if any 第八の共同発明者名 (該当する場合)		
Eighth inventor's signature 第八発明者の署名		Date 日付
Residence 住所		
Citizenship 国籍		
Mailing Address 郵送先		
Full name of ninth joint inventor, if any 第九の共同発明者名 (該当する場合)		
Ninth inventor's signature 第九発明者の署名		Date 日付
Residence 住所		
Citizenship 国籍		
Mailing Address 郵送先		
Full name of tenth joint inventor, if any 第十の共同発明者名 (該当する場合)		
Tenth inventor's signature 第十発明者の署名		Date 日付
Residence 住所		
Citizenship 国籍		
Mailing Address 郵送先		

Supplemental Priority Data Sheet

優先権に関する追補データシート

Additional prior foreign applications:
追加的先行外国特許出願:

Number 番号	Country 国名	Day/Month/Year Filed 出願年月日	Priority Claimed 優先権の主張 Yes 有り No 無し
2001-166311	Japan	01/06/2001	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Additional provisional applications:
追加的仮出願:

Application Number 出願番号	Filing Date 出願日

Additional U.S. applications:
追加的米国出願:

Application Number 出願番号	Filing Date 出願日	(Status: patented, pending, abandoned) (状態: 特許成立済、係属中、放棄済)

ASSIGNMENT

Whereas, We,

- (1) Yoshinori HARADA of 301, 7-37-17, Sagamiono, Sagamihara-shi, Kanagawa, 228-0803 Japan;
- (2) Shuzo MIZUTANI of 519, Shimotsuchidana, Fujisawa-shi, Kanagawa, 252-0807 Japan;
- (3) Shinkichi HASHIMOTO of 3-3-16, Minamihashimoto, Sagamihara-shi, Kanagawa, 229-1133 Japan;
- (4) Masakazu KUDOH of 2-8-32-7, Shironishi-machi, Yamagata-shi, Yamagata, 990-0832 Japan;
- (5) Naoki MIURA of 202, 3-3-34, Higashihara-cho, Yamagata-shi, Yamagata, 990-0034 Japan;
- (6) Katsufumi TAKAHASHI of 5-8-8, Shinbashi, Sakata-shi, Yamagata, 998-0864 Japan and
- (7) Hideki KIYOHARA of 11-8, Ouchi-cho, Tokuyama-shi, Yamaguchi, 745-0824 Japan respectively hereinafter called assignors, have invented certain improvements in

HIGHLY DURABLE SILICA GLASS, PROCESS AND APPARATUS FOR PRODUCING SAME, AND
HIGHLY DURABLE SILICA GLASS MEMBER AND APPARATUS PROVIDED WITH SAME
and executed an application for Letters Patent of the United States of America therefor on
March 11, 2002 ; and

Whereas,

- (1) TOSOH CORPORATION of 4560, Kaisei-cho, Shinnanyo-shi, Yamaguchi, 746-0006 Japan;
- (2) TOSOH QUARTZ CORPORATION of 3-1435, Tachiyagawa, Yamagata-shi, Yamagata, 990-2251 Japan and
- (3) TOSOH SGM CORPORATION of 4555, Kaisei-cho, Shinnanyo-shi, Yamaguchi, 746-0006 Japan (assignees), desire to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignees, its successors and assign, the entire right, title, and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. § 119, and we request the Director - U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignees, its successors and assign; and we will execute without further consideration all papers deemed necessary by the assignees in connection with the United States application when called upon to do so by the assignees.

We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____, filed _____) the filing date and application number of said application when known.

Date	<u>March 11, 2002</u>	Signature of Inventor (1)	<u>Yoshinori Harada</u>
Date	<u>March 11, 2002</u>	Signature of Inventor (2)	<u>Shuzo Mizutani</u>
Date	<u>March 11, 2002</u>	Signature of Inventor (3)	<u>Shinkichi Hashimoto</u>
Date	<u>March 11, 2002</u>	Signature of Inventor (4)	<u>Masakazu Kudoh</u>
Date	<u>March 11, 2002</u>	Signature of Inventor (5)	<u>Naoki Miura</u>
Date	<u>March 11, 2002</u>	Signature of Inventor (6)	<u>Katsufumi Takahashi</u>
Date	<u>March 11, 2002</u>	Signature of Inventor (7)	<u>Hideki Kiyohara</u>

FILED
MAR 26 2002